

INVENTOR: Nobuyuki Miyazaki, Kawasaki, Japan
 Shun-ichi Kojima, Kawasaki, Japan
 Takashi Takahashi, Kawasaki, Japan
 Bunji Uchino, Kawasaki, Japan

ASSIGNEE: Asahi Glass Company Ltd., Tokyo, Japan (foreign corp.)

APPL-NO: 08/397,052

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 Japan 5-232516 Aug. 25, 1993
 Japan 6-041463 Mar. 11, 1994
 Japan 6-092205 Apr. 28, 1994

INT-CL: [6] B32B 27/08; B32B 27/18; B32B 27/28; B32B 31/12

US-CL-ISSUED: 428/335, 421, 422, 446, 447; 524/261, 267, 269, 544, 545, 546; 106/287.1, 287.12; 427/372.2, 387, 393.5

US-CL-CURRENT: 428/335; 106/287.1, 287.12; 427/372.2, 387, 393.5; 428/421, 422, 446, 447; 524/261, 267, 269, 544, 545, 546

SEARCH-FLD: 428/421, 422, 447, 451, 216, 335, 446; 524/261, 267, 269, 412.4, 545, 544, 546, 520; 106/287.16, 287.12, 287.14, 287.13, 287.1; 427/387, 393.5, 372.2

REF-CITED:

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ART-UNIT: 173

PRIM-EXMR: Vivian Chen

LEGAL-REP: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

ABSTRACT:

A method for treating an outdoor article, wherein a surface treating agent comprising a medium (B) containing a tetraalkoxysilane or a silane compound having a silanol group obtained by hydrolyzing an oligomer of such a tetraalkoxy silane (A), wherein the content of (A) is from 0.01 to 100 parts by weight per 100 parts by weight of (B), is used, and a thin film is formed by treating a hydrophobic synthetic resin coating film surface of the outdoor article with such a surface treating agent. It is thereby possible to prevent formation of a streak soils which are likely to form at a portion where rain water collects and runs down, such as below a window frame of a building.

8 Claims, No Drawings

US PAT NO: 5,747,581 [IMAGE AVAILABLE] L4: 6 of 24

DATE ISSUED: May 5, 1998

TITLE: Adhesive and sealing material

INVENTOR: Manfred Proebster, Friedrich-Ebert-Str. 4, 69226 Nussloch,
 Federal Republic of Germany
 Manfred Schumann, Burgstr. 24, 69121 Heidelberg, Federal
 Republic of Germany

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INT-CL: [6] C08J 3/00; C08K 3/20; C08L 78/00; B65C 9/25
US-CL-ISSUED: 524/590; 156/320, 331.4, 331.7; 427/208.2, 372.2, 385.5,
388.1, 389.7; 524/589; 525/440, 457
US-CL-CURRENT: 524/590; 156/320, 331.4, 331.7; 427/208.2, 372.2, 385.5,
388.1, 389.7; 524/589; 525/440, 457
SEARCH-FLD: 524/589, 590; 525/440, 457; 427/208.2, 372.2, 385.5,
388.1, 389.7; 156/320, 331.4, 331.7
REF-CITED:

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340906	11/1989	European Patent Office
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340164	5/1990	European Patent Office
369607	5/1990	European Patent Office
455400	11/1991	European Patent Office
3140884	6/1982	Federal Republic of Germany
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4023801	1/1991	Federal Republic of Germany
4023804	1/1991	Federal Republic of Germany
4210277	9/1993	Federal Republic of Germany
2234516	2/1991	United Kingdom

ART-UNIT: 151
PRIM-EXMR: Patrick Niland
LEGAL-REP: Ernest G. Szoke, Wayne C. Jaeschke, Real J. Grandmaison

ABSTRACT:

An adhesive and sealing material contains a) at least one reactive prepolymer which is liquid at room temperature and b) at least one further component which is solid at room temperature, liquid at a slightly raised temperature and at least partially incompatible with the liquid prepolymer(s). Component b) is preferably liquid at a temperature of max. 50.degree. C.

17 Claims, 1 Drawing Figures

US PAT NO: 5,118,532 [IMAGE AVAILABLE] L4: 10 of 24
DATE ISSUED: Jun. 2, 1992
TITLE: Method of producing decorative vertical louver window covering material and decorative vertical louver material so produced
INVENTOR: Ann H. Batson, Anderson, SC
J. Bennett Billings, Starr, SC
D. Gregory Royster, Belton, SC
ASSIGNEE: VyTech Industries, Inc., Anderson, SC (U.S. corp.)
APPL-NO: 07/662,285
DATE FILED: Feb. 28, 1991

REL-US-DATA: Continuation-in-part of Ser. No. 485,608, Feb. 27, 1990,
abandoned
INT-CL: [5] B05D 3/00, B05D 5/00
US-CL-ISSUED: 427/278, 316, 365, 393.5, 398.1; 428/290
US-CL-CURRENT: 427/278, 316, 365, 393.5, 398.1; 442/103, 136
SEARCH-FLD: 427/209, 278, 340, 341, 389, 316, 393.5, 398.1, 365;
428/290

REF-CITED:

U.S. PATENT DOCUMENTS

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ART-UNIT: 139
PRIM-EXMR: Michael Lusignan
LEGAL-REP: Dority & Manning

ABSTRACT:

A method of producing decorative web from nonwoven polyester web includes heat setting the web at a temperature between 390 and 410 degrees Fahrenheit before applying a pigmented, solvent soluble, thermoplastic resin composition to at least one side of the web. The composition can include a polymer solution, which includes a vinyl polymer such as one or both of a polyvinyl chloride homopolymer resin and a polyvinyl chloride acetate copolymer resin, a solvent, plasticizers, heat stabilizers, light stabilizers, pigments and antistats. The composition also preferably may include fillers, soil repellents, and flame retardants. The composition is applied by a knife-over-roll apparatus, a rotogravure printer, or other conventional applicating apparatus. After the composition is applied, the web is passed through a hot air oven maintained at a temperature in the range of from about 230.degree. F. to about 330.degree. F. to dry the web of solvent and cure the composition to form solids in the web. The web can be embossed by passing the web through a conventional embossing apparatus that has been specially modified to include a backup roll to the embossing roll wherein the Shore A hardness of the backup roll is at least 90. The web so produced has a basis weight in the range of from about 3.5 ounces per square yard to about 15 ounces per square yard and includes cured composition solids which include a polyvinyl chloride/vinyl acetate copolymer resin, a polyvinyl chloride resin, plasticizers, stabilizers, antistats, and pigments. Applying standard commercial acceptance tests for louver material, the maximum shrinkage was 1/16", maximum stretch was 1/16", the maximum twist was 5 degrees, lightfastness was at least 200 hours, and no waviness, cupping, crocking or unacceptable mottling was observed.

16 Claims, 6 Drawing Figures

US PAT NO: 5,073,407 [IMAGE AVAILABLE] L4: 12 of 24
DATE ISSUED: Dec. 17, 1991
TITLE: Method of treating a surface
INVENTOR: Richard Frazer, Williamsville, NY
ASSIGNEE: Crescent Marketing, Inc., Eden, NY (U.S. corp.)
APPL-NO: 07/552,702
DATE FILED: Jul. 13, 1990
INT-CL: [5] B05D 5/00; B05D 3/12
US-CL-ISSUED: 427/160, 165, 322, 327, 355, 369, 384, 421, 168
US-CL-CURRENT: 427/160, 165, 168, 322, 327, 355, 369, 384, 421
SEARCH-FLD: 427/160, 369, 327, 322, 421, 355, 384, 165
REF-CITED:

U.S. PATENT DOCUMENTS

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ART-UNIT: 139
PRIM-EXMR: Janyce Bell

ABSTRACT:

A method of treating a painted vehicle or glass to form a film which protects the surface and can be easily cleaned. A treatment solution including a surfactant mixed with water is rubbed into sections of the surface being protected until a tacky residue forms on the surface. The tacky residue is then rubbed into the surface until the surface is wiped free of any streaks.

21 Claims, No Drawings

US PAT NO: 4,978,708 [IMAGE AVAILABLE] L4: 14 of 24
DATE ISSUED: Dec. 18, 1990
TITLE: Aqueous-based coating compositions comprising anionic polyurethane principal resin and anionic acrylic grind resin
INVENTOR: Chris W. Fowler, Walled Lake, MI
Michael C. Knight, Centerline, MI
Anthony J. Nicholas, Clawson, MI
ASSIGNEE: BASF Corporation, Clifton, NJ (U.S. corp.)
APPL-NO: 07/343,119
DATE FILED: Apr. 25, 1989
INT-CL: [5] C08L 75/04
US-CL-ISSUED: 524/507; 427/409, 435, 372.2, 407.1; 428/460, 458, 423.1
US-CL-CURRENT: 524/507; 427/372.2, 407.1, 409, 435; 428/423.1, 458, 460
SEARCH-FLD: 524/507; 427/407.1, 409, 435, 372.2; 428/460, 458, 423.1
REF-CITED:

U.S. PATENT DOCUMENTS

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4,794,147	12/1988	Savino et al.	525/440
4,914,148	4/1990	Hille et al.	524/507

ART-UNIT: 158
PRIM-EXMR: Edith Buffalow
LEGAL-REP: Jerry F. Janssen

ABSTRACT:

Aqueous-based basecoat compositions, useful for application to metal and/or plastic substrates, comprise an anionic polyurethane principal resin and an anionic acrylic pigment grind resin. The compositions are particularly adapted to application to substrates over a wide range of ambient humidities and have quick drying characteristics. The incorporation of an anionic acrylic grind resin, which is compatible with the anionic polyurethane principal resin, produces a coating which has good pigment wetting and dispersion characteristics with improved shelf life and color stability.

22 Claims, No Drawings

441, 442, 447, 451, 494, 517, 520, 521, 522 [IMAGE AVAILABLE]

16. 4,299,069, Nov. 10, 1984, Prefabricated wall facing panels; Alfred Neumann, 52/309.4, 314, 509, 592.6 [IMAGE AVAILABLE]

17. 4,164,598, Aug. 14, 1979, Veneer wall covering and method of assembly; William D. Wilhelm, 428/48; 52/306, 309.1, 314; 428/15, 703 [IMAGE AVAILABLE]

18. 4,074,480, Feb. 21, 1978, Kit for converting single-glazed window to double-glazed window; Henry W. G. Burton, 52/127.1, 172, 202, 209, 717.02, 786.13; 428/34 [IMAGE AVAILABLE]

19. 3,882,218, May 6, 1975, Brick textured building panels and their method of manufacture and installation; Charles G. Bixel, Jr., 264/157; 52/314, 746.12, DIG.3; 264/129, 293, 321; 428/15 [IMAGE AVAILABLE]

=> muntin/ti,ab,clm

L1 70 MUNTIN/TI,AB,CLM

=> l1 and 427/clas

L2 0 L1 AND 427/CLAS

=> 427/372.2,384,385.5,388.4,393.5/cclst

L3 4532 427/372.2,384,385.5,388.4,393.5/CCLST

=> l3 and window/ti,ab,clm

L4 24 L3 AND WINDOW/TI,AB,CLM

=> d 1- cit

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2. 5,869,128, Feb. 9, 1999, Method of manufacturing a substrate with reduced glare, method for manufacturing a display window of a cathode ray tube and to a cathode ray tube having a display window; Gijsbertus H.W.M. Meulendijks, et al., 427/64, 68, 106, 126.2, 126.3, 162, 165, 230, 348, 385.5 [IMAGE AVAILABLE]

3. 5,866,199, Feb. 2, 1999, Primer-paint mask composition and methods of use thereof; Ronald Swidler, et al., 427/154, 155, 156, 385.5, 393.6, 407.1, 407.2 [IMAGE AVAILABLE]

4. 5,853,895, Dec. 29, 1998, Bonded vehicular glass assemblies utilizing two-component urethanes, and related methods of bonding; Jeffrey A. Lewno, 428/425.6; 52/204.62, 204.69, 208; 156/108; 296/201; 427/372.2, 385.5, 388.1, 389.7 [IMAGE AVAILABLE]

5. 5,773,077, Jun. 30, 1998, Abrasion-protective convertible window; Stanley Edmond, 427/155, 163.1, 209, 393.5 [IMAGE AVAILABLE]

6. 5,747,581, May 5, 1998, Adhesive and sealing material; Manfred Proebster, et al., 524/590; 156/320, 331.4, 331.7; 427/208.2, 372.2, 385.5, 388.1, 389.7; 524/589; 525/440, 457 [IMAGE AVAILABLE]

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8. 5,705,232, Jan. 6, 1998, In-situ coat, bake and cure of dielectric material processing system for semiconductor manufacturing; Ming Hwang, et al., 427/512, 240, 385.5, 498, 508, 521, 542; 438/782 [IMAGE AVAILABLE]

9. 5,597,613, Jan. 28, 1997, Scale-up process for replicating large area diffractive optical elements; Lynn Galarneau, et al., 427/162, 240, 269, 271, 358, 369, 371, 385.5, 389.7, 510 [IMAGE AVAILABLE]

10. 5,118,532, Jun. 2, 1992, Method of producing decorative vertical louver window covering material and decorative vertical louver material so produced; Ann H. Batson, et al., 427/278, 316, 365, 393.5, 398.1;

442/103, 136 [IMAGE AVAILABLE]

11. 5,091,214, Feb. 25, 1991, Process for the production of a layer of self-cicatrizing polyurethane, and products obtained; Rene Muller, et al., 427/164, 165, 389.7, 393.5; 428/38, 423.1, 425.6 [IMAGE AVAILABLE]

12. 5,073,407, Dec. 17, 1991, Method of treating a surface; Richard Frazer, 427/160, 165, 168, 322, 327, 355, 369, 384, 421 [IMAGE AVAILABLE]

13. 5,008,154, Apr. 16, 1991, Composition and method for priming and coating silicone substrates; Michael D. Meddaugh, 428/447; 427/302, 322, 387, 393.5, 412.1, 444 [IMAGE AVAILABLE]

14. 4,978,708, Dec. 18, 1990, Aqueous-based coating compositions comprising anionic polyurethane principal resin and anionic acrylic grind resin; Chris W. Fowler, et al., 524/507; 427/372.2, 407.1, 409, 435; 428/423.1, 458, 460 [IMAGE AVAILABLE]

15. 4,915,763, Apr. 10, 1990, Non-woven fabric, opaque and non-opaque, with and without weave-like finish and process for producing these; Paul G. Swiszczy, 156/209, 219, 220, 263, 290, 291; 160/DIG.7; 427/271, 322, 385.5, 430.1; 428/172 [IMAGE AVAILABLE]

16. RE 32,757, Sep. 27, 1988, Glass-run for window glass of motor car; Yoshio Yamazaki, et al., 428/423.1; 49/441; 427/385.5, 393.6; 428/423.9, 424.2; 524/507 [IMAGE AVAILABLE]

17. 4,613,540, Sep. 23, 1986, Window for broad bandwidth electromagnetic signal transmission, and method of construction thereof; G. Robert Traut, et al., 428/212; 427/385.5; 428/333, 421, 422 [IMAGE AVAILABLE]

18. 4,572,872, Feb. 25, 1986, Glass-run for window glass of motor car; Yoshio Yamazaki, et al., 428/423.1; 49/441; 427/385.5, 393.6; 428/423.9, 424.2; 524/507 [IMAGE AVAILABLE]

19. 4,572,871, Feb. 25, 1986, Glass-run for window glass of motor car; Akira Mabuchi, et al., 428/423.1; 49/441; 427/385.5, 393.6; 428/423.9, 424.2; 524/507 [IMAGE AVAILABLE]

20. 4,194,022, Mar. 18, 1980, Transparent, colorless, electrically conductive coating; Frank H. Gillery, 427/109, 124, 154, 162, 255.6, 255.7, 331, 343, 384 [IMAGE AVAILABLE]

21. 4,145,855, Mar. 27, 1979, System for protecting an enclosed space from high or low temperature extremes; Robert T. Sheldon, 52/232, 79.6, 660, DIG.12; 427/155, 156, 247, 388.4; 428/913 [IMAGE AVAILABLE]

22. 4,127,437, Nov. 28, 1978, Process for etching SiO.sub.2 utilizing HF vapor and an organic catalyst; Richard L. Bersin, et al., 438/743; 252/79.1; 427/331, 385.5; 430/313; 438/948 [IMAGE AVAILABLE]

23. 3,933,407, Jan. 20, 1976, Articles coated with synergistic anti-fog coatings based on hydrophillic polymers and organosiloxane- oxyalkylene block copolymers; Robert S. Tu, et al., 359/507; 106/13; 215/12.2; 351/62, 159, 166; 359/896; 426/129; 427/162, 164, 165, 387, 389.7, 393.5, 412, 429, 442; 428/412, 447, 483, 510, 516, 520; 525/100, 101 [IMAGE AVAILABLE]

24. 3,726,703, Apr. 10, 1973, NON-FOGGING MATERIAL; Ralph William Dornte, 428/412; 106/13; 427/379, 389.7, 393.5; 428/413, 423.1, 524 [IMAGE AVAILABLE]

=> d fro 1,6,10,12,14

US PAT NO: 5,895,713 [IMAGE AVAILABLE]

L4: 1 of 24

DATE ISSUED: Apr. 20, 1999

TITLE: Method for treating the surface of an outdoor article

=> outgas?

L1 4854 OUTGAS?

=> 11 and latex/ti,ab,clm

L2 18 L1 AND LATEX/TI,AB,CLM

=> 12 and seal?

L3 8 L2 AND SEAL?

=> 12 not 13

L4 10 L2 NOT L3

=> d 13 1- cit

1. 5,693,714, Dec. 2, 1997, Higher modulus compositions incorporating particulate rubber; Bernard D. Bauman, et al., 525/104; 521/54; 525/129, 169, 184, 222, 232 [IMAGE AVAILABLE]

2. 5,581,192, Dec. 3, 1996, Conductive liquid compositions and electrical circuit protection devices comprising conductive liquid compositions; John J. Shea, et al., 324/722, 555; 335/47, 51; 361/58 [IMAGE AVAILABLE]

3. 5,506,283, Apr. 9, 1996, Higher modulus compositions incorporating particulate rubber; Edwin L. McInnis, et al., 525/332.8; 521/42.5; 525/332.9, 333.1, 333.2, 356 [IMAGE AVAILABLE]

4. 5,500,187, Mar. 19, 1996, Disposable optical agglutination assay device and method for use; James H. Deoms, et al., 422/58, 61, 73; 435/287.1, 287.2, 288.7, 810; 436/164, 165, 514, 531, 534, 536, 538, 541, 805, 807, 815 [IMAGE AVAILABLE]

5. 5,280,689, Jan. 25, 1994, Composite cladding panel; Peter A. D. Mill, 52/309.9, 169.14, 235, 314, 796.1 [IMAGE AVAILABLE]

6. 3,993,811, Nov. 23, 1976, Thermal insulating panel for use in an insulative container and method of making said panel; Wilhelm E. Walles, 428/35.9; 215/12.2; 220/62.11, 592.27; 427/183, 304; 428/357, 912.2 [IMAGE AVAILABLE]

7. 3,921,844, Nov. 25, 1975, Heat insulating container having plastic walls retaining vacuum; Wilhelm E. Walles, 215/13.1; 428/34, 35.9 [IMAGE AVAILABLE]

8. 3,828,960, Aug. 13, 1974, HEAT INSULATING CONTAINER HAVING PLASTIC WALLS RETAINING VACUUM; Wilhelm E. Walles, 215/13.1; 428/35.9 [IMAGE AVAILABLE]

=> d 14 1- cit

1. 5,454,801, Oct. 3, 1995, Printed polymer coatings and method for making same; Nels J. Lauritzen, 604/378, 358, 367, 381, 387 [IMAGE AVAILABLE]

2. 5,419,975, May 30, 1995, Inorganic ceramic paper, its method of manufacture and articles produced therefrom; Timothy S. Lintz, et al., 428/688, 113, 212, 325 [IMAGE AVAILABLE]

3. 5,234,804, Aug. 10, 1993, Photographic paper support with silver halide emulsion layer; Erika Sato, et al., 430/538, 531, 539 [IMAGE AVAILABLE]
4. 5,075,368, Dec. 24, 1991, Synthetic alkali metal aluminosilicates and use in paints; Salish K. Wason, 524/450; 523/466, 521 [IMAGE AVAILABLE]
5. 4,933,387, Jun. 12, 1990, Synthetic alkali metal alumino-silicates, methods and uses, compositions and their methods of preparation; Satish K. Wason, 524/450; 523/466, 521 [IMAGE AVAILABLE]
6. H 347, Oct. 6, 1987, Alumina fiber reinforced lithium aluminosilicate; George K. Layden, et al., 428/113, 293.7 [IMAGE AVAILABLE]
7. 4,596,834, Jun. 24, 1986, Water resistant foamed product prepared from a latex, a mineral acid, hydraulic cement, filler, aggregate and stabilizer; Joseph Widener, et al., 521/83; 106/672, 692 [IMAGE AVAILABLE]
8. 4,182,649, Jan. 8, 1980, Polyurethane foam sheet and method; Irving E. Isgur, et al., 162/101, 108, 155, 168.2, 169, 183; 428/317.9, 327, 402, 423.5, 424.8, 425.1; 442/221, 370 [IMAGE AVAILABLE]
9. 4,075,166, Feb. 21, 1978, Method of stabilization of rubbers and vulcanizates; Vladimir Vasilievich Moiseev, et al., 524/239, 240, 249, 925, 926 [IMAGE AVAILABLE]
10. 3,646,749, Mar. 7, 1972, MACHINE-WASHABLE METALLIZED FIBROUS ARTICLE AND METHOD OF MAKING SAME; Philip J. Clough, et al., 442/188; 28/166, 169; 139/425R; 427/407.1; 428/378, 381, 394, 413 [IMAGE AVAILABLE]

=> seal?/ti,ab,clm and latex/ti,ab,clm not l3-l4

L5 662 SEAL?/TI,AB,CLM AND LATEX/TI,AB,CLM NOT (L3 OR L4)

=> l5 and 427/clas

L6 68 L5 AND 427/CLAS

=> sel 1- ccls; d sel e1-e30

E1 THROUGH E367 ASSIGNED

E#	FILE	FREQUENCY	TERM
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E1	USPAT	8	427/407.1/CCLS
E2	USPAT	7	427/2.3/CCLS
E3	USPAT	6	128/844/CCLS
E4	USPAT	6	427/136/CCLS
E5	USPAT	6	427/385.5/CCLS
E6	USPAT	6	427/393.5/CCLS
E7	USPAT	6	427/393.6/CCLS
E8	USPAT	5	2/168/CCLS
E9	USPAT	5	427/140/CCLS
E10	USPAT	5	427/393/CCLS
E11	USPAT	4	427/138/CCLS
E12	USPAT	4	427/203/CCLS
E13	USPAT	3	2/167/CCLS
E14	USPAT	3	264/31/CCLS
E15	USPAT	3	427/264/CCLS
E16	USPAT	3	427/265/CCLS
E17	USPAT	3	427/325/CCLS
E18	USPAT	3	427/373/CCLS
E19	USPAT	3	427/384/CCLS
E20	USPAT	3	427/387/CCLS
E21	USPAT	3	427/388.4/CCLS
E22	USPAT	3	427/408/CCLS

E23	USPAT		427/412.1/CCLS
E24	USPAT		427/421/CCLS
E25	USPAT	3	427/430.1/CCLS
E26	USPAT	3	428/319.7/CCLS
E27	USPAT	3	428/327/CCLS
E28	USPAT	3	428/446/CCLS
E29	USPAT	2	118/405/CCLS
E30	USPAT	2	404/82/CCLS

=> 52/171.3,172,786.13,456,314/cclst

L1 1495 52/171.3,172,786.13,456,314/CCLST

=> l1 and latex

L2 19 L1 AND LATEX

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42. 3,742,093, Jun. 26, 1973, METHOD OF SEPARATING AN INSOLUBLE LIQUID FROM POLYMER COMPOSITION; Richard H. Skidmore, 525/197; 159/2.2; 210/808; 264/349; 525/232; 528/501, 502C, 502F [IMAGE AVAILABLE]